Nathan Joseph Savas

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Education

California State University, Long Beach *Exp. Graduation: Dec 2021*

Bachelors (B.S) In Computer Science *Concentration GPA: 3.67*

Relevant Coursework: Analysis of Algorithms, Artificial Intelligence, Intro to Computer Security, Database Fundamentals, Operating Systems, Object Oriented Application Development, Intro to Software Engineering

Experience

Amazon Web Services (AWS) *Remote - CA*

Software Development Engineer Intern *June 2020 - August 2020*

- Worked with the AWS CodeGuru team to develop a visualization dashboard using React, Redux, and Redux-saga for time-based analysis of anomalies found in user accounts
- Developed an algorithm to track anomaly data over time — identifying overlapping intervals and rendering results within custom Apache EChart components (Line & Gantt Chart)
- Implemented UX features (tested with Jest) to dynamically filter data, provide responsive tooltip displays, and export data to various file formats

Siemens PLM Software *Cypress, CA*

Software Engineering Intern *May 2019 - January 2020*

- Worked with the NX CAD Validation team to build a SaaS application using Angular.js that consolidates user design data by allowing customers to run custom reports on CAD models
- Developed an internal JavaScript client library for NX cloud teams to provide abstractions for handling API protocols and rendering report data in navigation tree UI components
- Integrated tool with another library to tag bitmap images directly within a WebGL viewer interface

Projects

Senior Design Project: PhotoSense

Python, JavaScript, AWS EC2

- Worked in a team of 5 to develop a full-stack AI face censoring system — deploying a Keras-based RESTful API as a backend for a React.js application, Chrome Extension, and Twitter/Reddit bot
- Integrated Flask API with Redis to process images in batch for optimized memory usage/latency
- Developed web-based drawing tools using the Canvas API to allow users to edit the AI-generated segmentations directly within a React.js web application

US City Chemical Release Visualizer

JavaScript, PostgreSQL

- Led a team of 3 in developing a React.js application to visualize 30+ years of EPA chemical release data (~10GB) within any given US city
- Developed a RESTful API with Express.js to make queries from a PostgreSQL database
- Used the Mapbox JS SDK to render results in a map interface and React-Vis to create insightful visualizations for the user to explore

Skills

Programming Languages: Java, JavaScript, TypeScript, Python, C++, SQL, HTML, CSS

Frameworks/Tools: React, Redux, Express, Flask, Redis, Git, Node, AWS, PostgreSQL, JIRA, VS Code